

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A method for charging ~~at least one~~ a first battery ~~of a plurality of~~
batteries in a multiple battery charging station, the method comprising:

determining a status of ~~at least one~~ a parameter for the ~~at least one~~ first battery, wherein
the ~~at least one~~ parameter ~~comprises a closeness to a desired charge level~~ is one of,

an identification or serial number of the first battery;

a type of device to be powered by the first battery; or

a type of user to use a device powered by the first battery;

determining whether the ~~at least one~~ first battery is to be charged during a peak usage
time period or an off-peak usage time period; ~~and~~

responsive to a determination that the ~~at least one~~ first battery is to be charged during the
peak usage time period, determining a priority rating for charging the first battery relative to a
second battery of the plurality of batteries ~~the at least one battery~~ based upon the status of the at
least one parameter for the first battery; ~~and, wherein a battery closer to the desired charge level~~
~~has a higher priority rating.~~

charging the first battery in accordance with the determined priority rating.

2-4. (Cancelled)

5. (Currently Amended) The method of claim 1, wherein determining a status of ~~at least~~
~~one~~ the parameter for the ~~at least one~~ first battery comprises:

determining a number of ~~a~~ the plurality of batteries to be charged in the multiple battery charging station; and

determining ~~the~~ a status of the ~~at least one~~ parameter for each of the plurality of batteries.

6. (Cancelled)

7. (Currently Amended) The method of claim 5, wherein determining a priority rating for the ~~at least one~~ first battery comprises:

calculating a peak charge schedule for the plurality of batteries if the plurality of batteries are to be charged during the peak usage time period; and

calculating an off-peak charge schedule for the plurality of batteries if the plurality of batteries are to be charged during the off-peak usage time period.

8-11. (Cancelled)

12. (Currently Amended) A method for charging a plurality of batteries in a multiple battery charging station, the method comprising:

determining a status of ~~at least one~~ a parameter for each of the plurality of batteries, wherein the ~~at least one~~ parameter ~~comprises a closeness to a desired charge level~~ is one of

an identification or serial number of a given battery;

a type of device to be powered by a given battery; or

a type of user to use a device powered by a given battery;

determining if the plurality of batteries are to be charged during a peak usage time period

or an off-peak usage time period;

calculating a peak charge schedule, if the plurality of batteries are to be charged during the peak usage time period including,

determining a priority rating for each of the plurality of batteries based upon the status of the at least one parameter corresponding to the battery, wherein a battery closer to the desired charge level has a higher priority rating, and

setting a charge rate for charging each of the plurality of batteries based upon the determined priority rating for each of the plurality of batteries; and
calculating an off-peak charge schedule, if the plurality of batteries are to be charged during the off-peak usage time period including,

setting the charge rate for charging each of the plurality of batteries based at least upon the status of the at least one parameter corresponding to the battery and a time available for charging the battery.

13-16. (Cancelled)

17. (Currently Amended) A computer readable medium with program instructions tangibly stored thereon for charging ~~at least one a first~~ a first battery ~~of a plurality of batteries in a multiple battery charging station, the program instructions comprising the instructions for:~~

determining a status of ~~at least one a~~ a parameter for the ~~at least one first~~ first battery, wherein the ~~at least one parameter comprises a closeness to a desired charge level is one of,~~

an identification or serial number of the first battery;

a type of device to be powered by the first battery; or

a type of user to use a device powered by the first battery;

determining whether the ~~at least one~~ first battery is to be charged during a peak usage time period or an off-peak usage time period; ~~and~~

responsive to a determination that the ~~at least one~~ first battery is to be charged during the peak usage time period, determining a priority rating for charging the first battery relative to a second battery of the plurality of batteries ~~the at least one battery~~ based upon the status of the at least one parameter for the first battery; ~~and, wherein a battery closer to the desired charge level has a higher priority rating.~~

charging the first battery in accordance with the determined priority rating.

18-20. (Cancelled)

21. (Currently Amended) The computer readable medium of claim 17, wherein the instructions for determining a status of ~~at least one~~ the parameter for the ~~at least one~~ first battery comprises instructions for:

determining a number of ~~a~~ the plurality of batteries to be charged in the multiple battery charging station; and

determining ~~the a~~ status of the ~~at least one~~ parameter for each of the plurality of batteries.

22. (Cancelled)

23. (Currently Amended) The computer readable medium of claim 21, wherein the instructions for determining a priority rating for the ~~at least one~~ first battery comprises

instructions for:

calculating a peak charge schedule for the plurality of batteries, if the plurality of batteries are to be charged during the peak usage time period; and

calculating an off-peak charge schedule for the plurality of batteries, if the plurality of batteries are to be charged during the off-peak usage time period.

24-27. (Cancelled)

28. (Currently Amended) A computer readable medium with program instructions tangibly stored ~~thereon~~ thereon for charging a plurality of batteries in a multiple battery charging station, the program instructions comprising ~~the~~ instructions for:

determining a status of ~~at least one~~ a parameter for each of the plurality of batteries, wherein the ~~at least one~~ parameter ~~comprises a closeness to a desired charge level~~ is one of,

an identification or serial number of a given battery;

a type of device to be powered by a given battery; or

a type of user to use a device powered by a given battery;

determining if the plurality of batteries are to be charged during a peak usage time period or an off-peak usage time period;

calculating a peak charge schedule, if the plurality of batteries are to be charged during the peak usage time period including,

determining a priority rating for each of the plurality of batteries based upon the status of the ~~at least one~~ parameter corresponding to the battery, ~~wherein a battery closer to the desired charge level has a higher priority rating~~, and

setting a charge rate for charging each of the plurality of batteries based upon the determined priority rating for each of the plurality of batteries; and
calculating an off-peak charge schedule, if the plurality of batteries are to be charged during the off-peak usage time period including,

setting the charge rate for charging each of the plurality of batteries based at least upon the status of the ~~at least one~~ parameter corresponding to the battery and a time available for charging the battery.

29-32. (Cancelled)

33. (Previously Presented) The method of claim 1, wherein:

the peak usage time period corresponds to a time of day during which the at least one battery is to be used to power a device; and

the off-peak usage time period corresponds to a remainder of the day.

34. (Currently Amended) The computer readable medium of claim 17, wherein:

the peak usage time period corresponds to a time of day during which the at least one battery is to be used to power a device; and

the off-peak usage time period corresponds to a remainder of the day.